

Untitled

RESULT 2

ABU37845

ID ABU37845 standard; protein; 389 AA.

XX

AC ABU37845;

XX

DT 15-JUN-2007 (revised)

DT 19-JUN-2003 (first entry)

XX

DE Protein encoded by Prokaryotic essential gene #23372.

XX

KW Antisense; prokaryotic essential gene; cell proliferation; drug design;

KW BOND_PC; S-adenosyl methionine synthetase; [Neisseria meningitidis Z2491]; metK;

KW putative S-adenosyl methionine synthetase; [Neisseria meningitidis Z2491]; metK;

KW putative S-adenosyl methionine synthetase [Neisseria meningitidis Z2491].

XX

OS Neisseria meningitidis.

XX

PN WO200277183-A2.

XX

PD 03-OCT-2002.

XX

PF 21-MAR-2002; 2002WO-US009107.

XX

PR 21-MAR-2001; 2001US-00815242.

PR 06-SEP-2001; 2001US-00948993.

PR 25-CCT-2001; 2001US-0342923P.

PR 08-FEB-2002; 2002US-00072851.

PR 06-MAR-2002; 2002US-0362699P.

XX

PA (ELI T-) ELI TRA PHARM INC.

XX

PI Wang L, Zamudio C, Malone C, Haselbeck R, Chilson KL, Zyskind JW

PI Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth PA, Xu HH;

XX

DR WPI; 2003-029926/02.

DR N-PSDB; ACA41715.

DR PC: NCBI; gi 15793647.

XX

PT New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs.

XX

PS Claim 25; SEQ ID NO 65769; 1766pp; English.

XX

CC The invention relates to an isolated nucleic acid comprising any one of
CC the 6213 antisense sequences given in the specification where expression
CC of the nucleic acid inhibits proliferation of a cell. Also included are:
CC (1) a vector comprising a promoter operably linked to the nucleic acid
CC encoding a polypeptide whose expression is inhibited by the antisense
CC nucleic acid; (2) a host cell containing the vector; (3) an isolated
CC polypeptide or its fragment whose expression is inhibited by the
CC antisense nucleic acid; (4) an antibody capable of specifically binding
CC the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular
CC proliferation or the activity of a gene in an operon required for
CC proliferation; (7) identifying a compound that influences the activity of
CC the gene product or that has an activity against a biological pathway
CC required for proliferation, or that inhibits cellular proliferation; (8)
CC identifying a gene required for cellular proliferation or the biological
CC pathway in which a proliferation-required gene or its gene product lies
CC or a gene on which the test compound that inhibits proliferation of an
CC organism acts; (9) manufacturing an antibiotic; (10) profiling a

Untitled

CC compound's activity; (11) a culture comprising strains in which the gene
CC product is overexpressed or underexpressed; (12) determining the extent
CC to which each of the strains is present in a culture or collection of
CC strains; or (13) identifying the target of a compound that inhibits the
CC proliferation of an organism. The antisense nucleic acids are useful for
CC identifying proteins or screening for homologous nucleic acids required
CC for cellular proliferation to isolate candidate molecules for rational
CC drug discovery programs, or for screening homologous nucleic acids
CC required for proliferation in cells other than *S. aureus*, *S. typhimurium*,
CC *K. pneumoniae* or *P. aeruginosa*. The present sequence is encoded by one of
CC the target prokaryotic essential genes. Note: The sequence data for this
CC patent did not form part of the printed specification, but was obtained
CC in electronic format directly from WPO at
CC ftp://wipo.int/pub/inished_pct_sequences

CC Revised record issued on 15-JUN-2007 : Enhanced with precomputed
CC information from BCD.

XX

SQ Sequence 389 AA;

	Query Match	Score	Length	DB 1:	Length	DB 2:	Length
Best	Local Similarity	99.0%	1986	99.2%	389	99.0%	389
Matches	Conservative	385	1	385	1	385	1
Qy	1	MSEYLFTSESVSEGHPDKVADQVSDAI	LDAI LAQDPKARVAETLVNTGLCVLAGEI	TTT	60	TTT	60
Db	1	MSEYLFTSESVSEGHPDKVADQVSDAI	LDAI LAQDPKARVAETLVNTGLCVLAGEI	TTT	60	TTT	60
Qy	61	AQVDYI KVARETI KRI GYNSSSELGF	DANGCAVGVYYDCQSPDI	ACGVNEGEGI	DLNQGAG	120	120
Db	61	AQVDYI KVARETI KRI GYNSSSELGF	DANGCAVGVYYDCQSPDI	ACGVNEGEGI	DLNQGAG	120	120
Qy	121	DQGLMFGYACDEPTLMPFAI	YYSHRLMQRSELRLKDGLPWL	RPAKALTVYDSETG	180	180	180
Db	121	DQGLMFGYACDEPTLMPFAI	YYSHRLMQRSELRLKDGLPWL	RPAKALTVYDSETG	180	180	180
Qy	181	KVKRI DTVVLSTQHDPSI	AYEELKNAVI EHI	I KPVLPSELLTDETCKYL	I NPTGRFVI	GGP	240
Db	181	KVKRI DTVVLSTQHDPSI	AYEELKNAVI EHI	I KPVLPSELLTDETCKYL	I NPTGRFVI	GGP	240
Qy	241	Q3DCGLTGRIK	I VDTYGGAA	PHGGAFSGKDP	SKVDRSAAYACRYVAKNI	VAAGLATCQQ	300
Db	241	Q3DCGLTGRIK	I VDTYGGAA	PHGGAFSGKDP	SKVDRSAAYACRYVAKNI	VAAGLATCQQ	300
Qy	301	I QVSYAI GVAEPTSI	SI DTFGTGI	SEEKLI ALVREHF	DLRPKGIVQMLDLLRP	I YSKSA	360
Db	301	I QVSYAI GVAEPTSI	SI DTFGTGI	SEEKLI ALVREHF	DLRPKGIVQMLDLLRP	I YSKSA	360
Qy	361	AYGHFGREEPEFTWERTDKAAL	RAAAGL	389	AYGHFGREEPEFTWERTDKAAL	RAAAGL	389
Db	361	AYGHFGREEPEFTWERTDKAAL	RAAAGL	389	AYGHFGREEPEFTWERTDKAAL	RAAAGL	389